

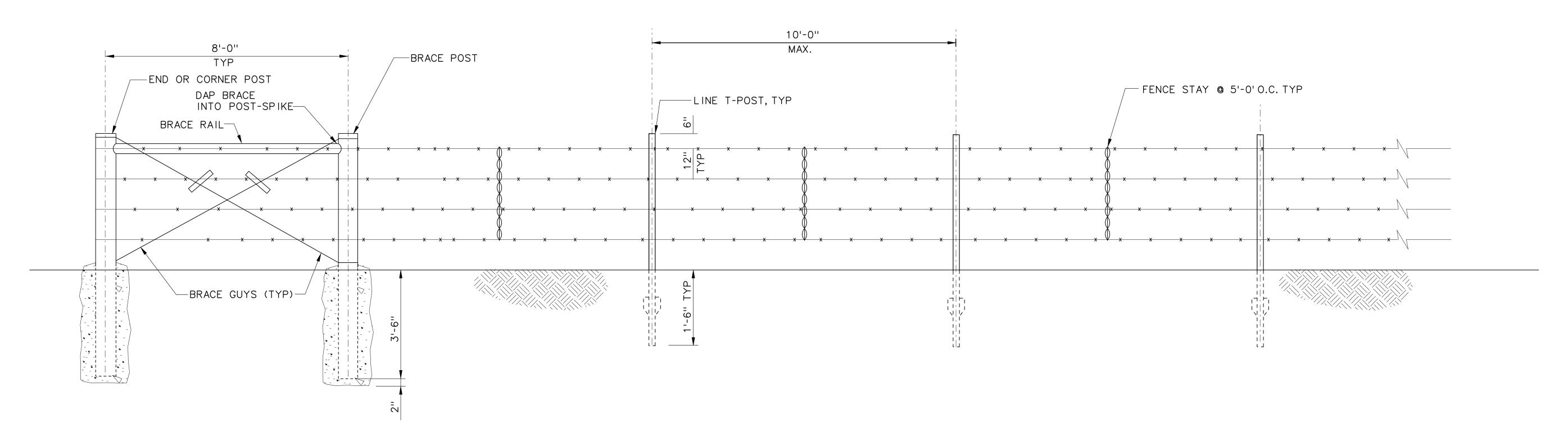
REFERENCE DRAWINGS

FOR CONSTRUCTION AND RECONSTRUCTION, AS DEFINED IN ACCESS ROAD SUMMARY NTS

### ROAD SURFACING MATERIAL

COMPUTER REVISION ONLY BY DATE APPROVED \* C=CONTRACT CONSTRUCTION ,FA=FORCE ACCOUNT CONSTRUCTION ,R=RECORD UNITED STATES DEPARTMENT OF ENERGY HDR/MHT Design \_ BONNEVILLE POWER ADMINISTRATION HDR/LBM HEADQUARTERS, PORTLAND, OREGON BIG EDDY-KNIGHT NO.1 HDR/DEC 500kv TRANSMISSION LINE PROJECT ROAD CROSS SECTION TYPICAL DETAIL SERIAL SOURCE SIZE SHEET REVISION DRAWING NUMBER TITLE 290778 | LFC | A1 | 50 Date JULY 2011

- FT. PROVIDE WIDENING ON INSIDE OF ALL CURVES LESS THAN 400 FT IN RADIUS. WIDENING SHALL BE EQUAL TO 400 DIVIDED BY THE RADIUS OF CURVE IN FEET.
- 4. USE OF SLOPES STEEPER THAN THOSE AS DEFINED IN THE SLOPE SECTION TABLE ABOVE ARE SUBJECT TO APPROVAL BY A LICENSED GEOTECHNICAL ENGINEER.
- 5. EXCAVATED CUT SECTIONS GREATER THAN 10 FT IN DEPTH TO EXISTING GROUND SHALL BE REVIEWED BY A LICENSED GEOTECHNICAL ENGINEER FOR SLOPE STABILITY WITH APPROPRIATE CUT SLOPES DEFINED BASED ON EXCAVATED MATERIAL CHARACTERISTICS.
- 6. FILL SECTIONS GREATER THAN 10 FT IN DEPTH TO EXISTING GROUND SHALL BE REVIEWED BY A LICENSED GEOTECHNICAL ENGINEER FOR SLOPE STABILITY WITH APPROPRIATE FILL SLOPES BASED ON FILL MATERIAL CHARACTERISTICS.
- 7. ALL GEOTEXTILE APPLICATIONS USED TO STABILIZE ACCESS ROADS SHALL BE 15 FT MINIMUM ROLLS WITH A MINIMUM OF 60 TONS PER STATION OF SUB-BASE AND SURFACING MATERIAL APPLIED OVER THE GEOTEXTILE.
- 8. DRAINAGE DITCH REQUIRED ON LOW SIDE OF ROADWAY WHEN BOTH THE HIGH SIDE AND LOW SIDE OF ROADWAY ARE IN A CUT SECTION.

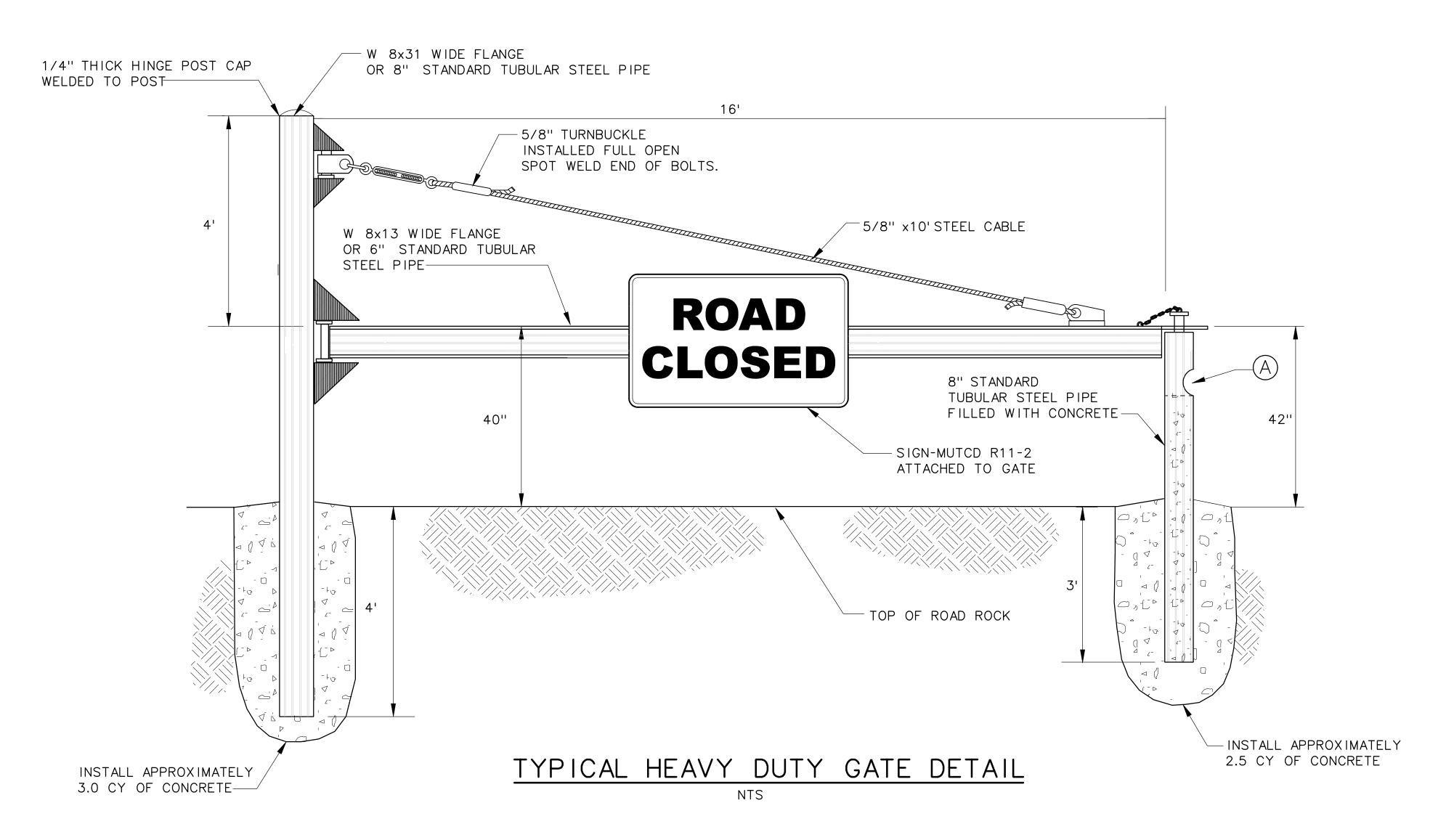


END CORNER, BRACE POST OR BRACE RAIL = 6"x6"x8"PT WOOD BRACE GUYS = 2 STRANDS OF NO.9 GALVANIZED WIRE TWISTED TOGETHER LINE POSTS = 6 FT STEEL POSTS BARBED WIRE = 12\* GAGE, 2 POINT

RANCH FENCE TO REPLACE FENCE DISRUPTED BY CONSTRUCTION ACTIVITIES.

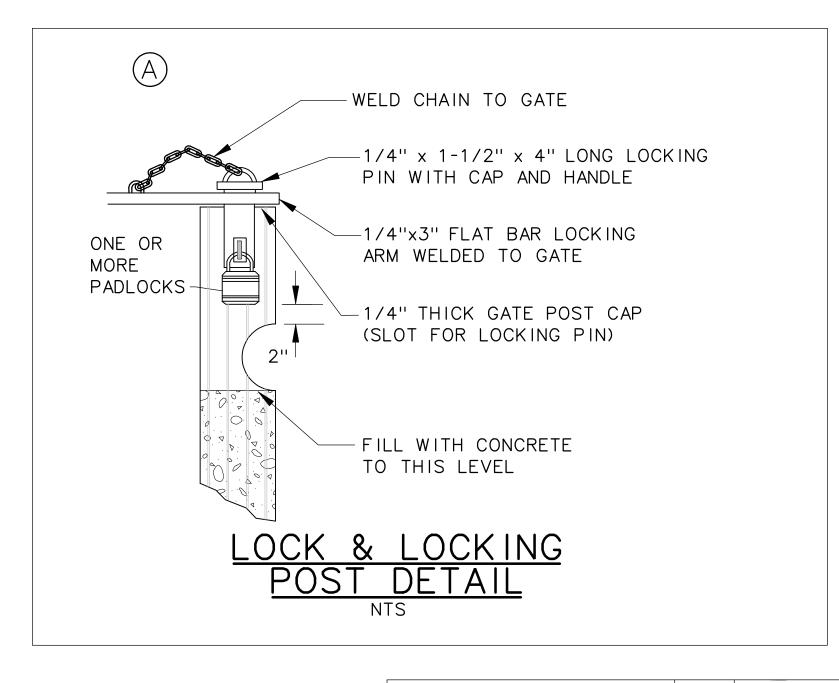
RANCH FENCE TYPICAL DETAIL

	NO. *C W.O. ØØ232575	COMPUTER REVISION ONLY BY DATE APPROVED				
	* C=CONTRACT CONSTRUCTION	,FA=FORCE ACCOUNT CONSTRUCTION ,R=RECORD				
	Design HDR/MHT UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION					
	DrawnHDR/LBM	HEADQUARTERS, PORTLAND, OREGON				
	Chkd HDR/DEC	BIG EDDY-KNIGHT NO.1				
	Sub	500kv TRANSMISSION LINE				
	Rec	PROJECT				
	Rec	RANCH FENCE TYPICAL DETAIL				
	Appr					
DRAWING NUMBER SHEET TITLE		SERIAL SOURCE SIZE SHEET REVISION				
REFERENCE DRAWINGS	DateJULY 2011	290778   LFC   A1   51   0   <b> </b>				



#### GENERAL NOTES:

- 1. ALL STEEL PIPE SHALL BE ASTM A500 GRADE B. ALL OTHER STEEL SHALL BE ASTM A36.
- 2. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1. ALL ELECTRODES SHALL BE E70XX.
- 3. STRUCTURAL STEEL FABRICATION SHALL CONFORM TO THE AISC CODE OF STANDARD PRACTICE.
- 4. ALL STEEL MEMBERS SHALL BE BLAST CLEANED
  TO SSPC-SP2 STANDARDS AND PRIMED WITH
  SHERWIN WILLIAMS PROCRY UNIVERSAL PRIMER (2-4 MILS)
  OR APPROVED EQUAL. THE GATE AND ALL APPURTENANCES
  SHALL BE PAINTED WITH SHERWIN WILLIAMS
  RUGGED BROWN (6062) OR APPROVED EQUAL.
  DTMACRYLIC-B66-100 SERIES (2.5-4 MILS)

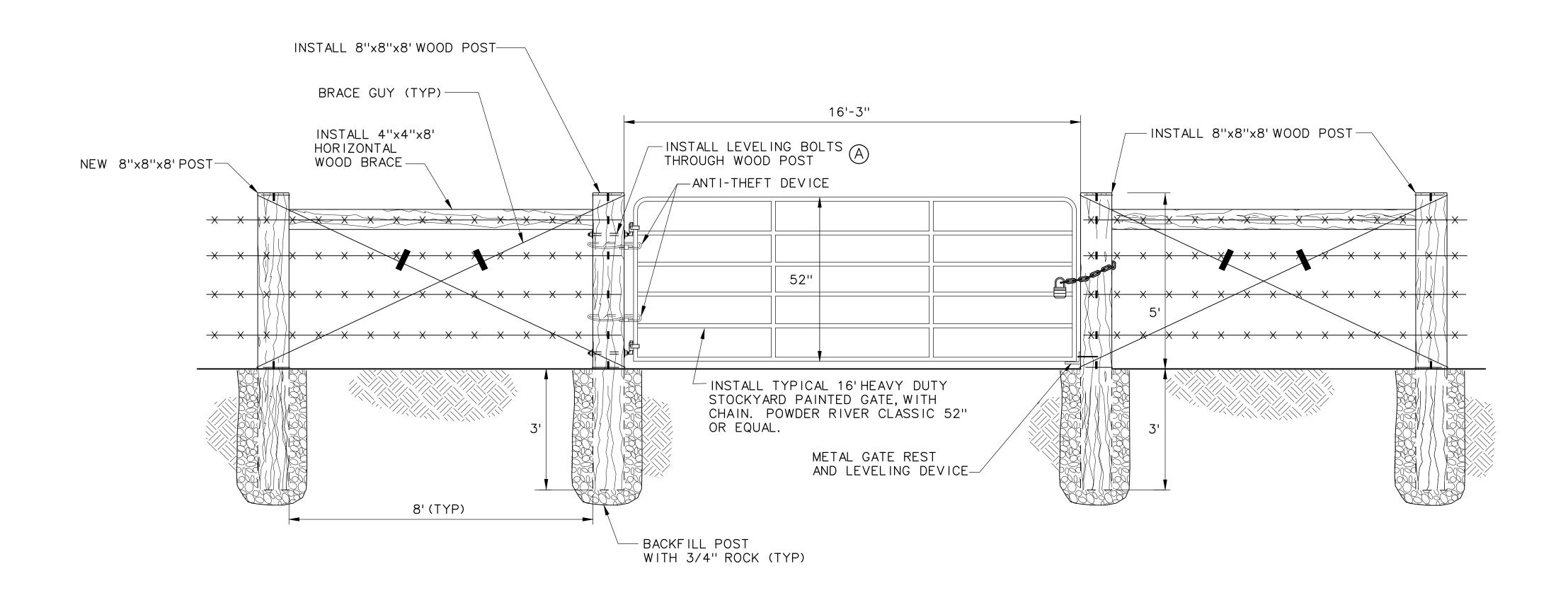


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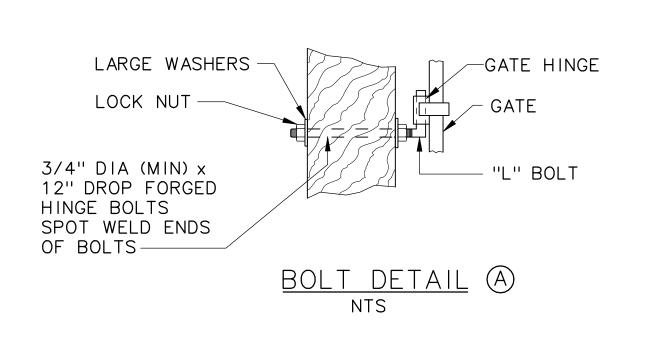
TITLE

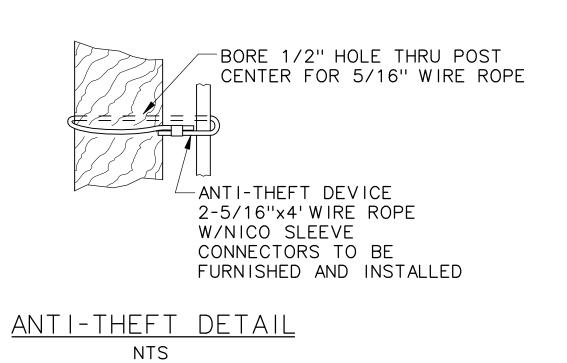
REFERENCE DRAWINGS

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_		DR/LBM				LE POWER Jarters, port				
		DR/DEC		BIG	Ε	DDY-KI	NIGH	HT	NO.	1
Sub				500kv	T	RANSM	IISS	10	N LI	NE
Rec _						PROJI	_ • •	<b>~</b> .	<b>-</b> -	
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				Т	$^{T}Y$	PICAL	DET	ΓΑΙ	L	
Appr _				SERIAL		SOURCE	SIZE	SHF	FT	REVISION
Date_	JU	LY 2011		29077	8		A1		52	0



		Materials Required For One Gate
Item	Quant	Description
1	1	16 ft tubular frame gate complete with 1" hinges, 1 gate leveling device and chain
2	2	Anti-theft device (see detail)
3	4	8"x8"x8' sawn cedar post or equal split post, PT
4	80 FT	No. 9 smooth galvanized wire (brace guys)
5	2	4"x4"x8' sawn cedar post or equal split post (wood brace), PT
6	125 FT	No. 9 gage galvanized steel barbed wire
7	1/2 LB	Common nails 20d (Galv.)
8	1/2 LB	Staples

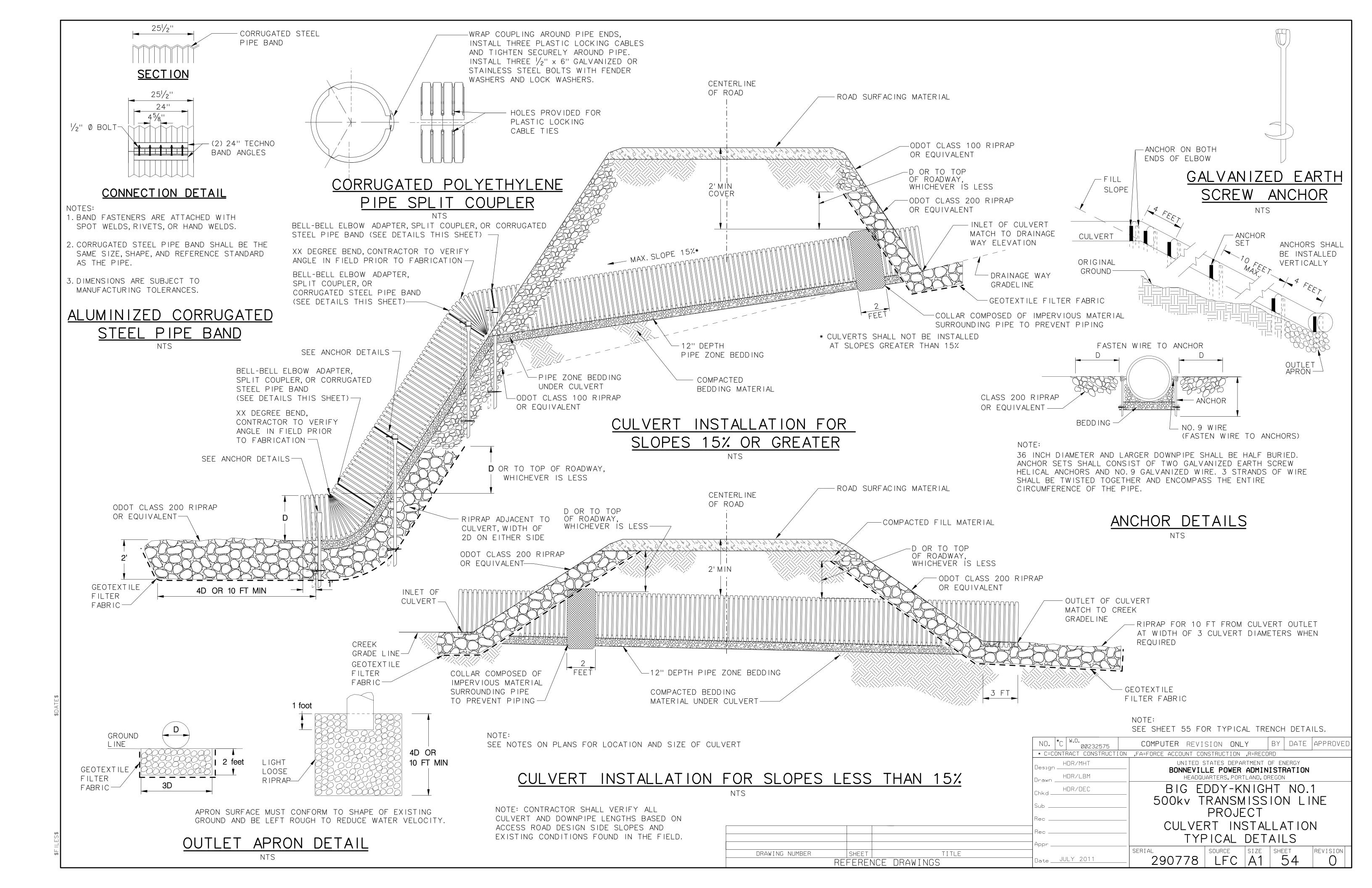


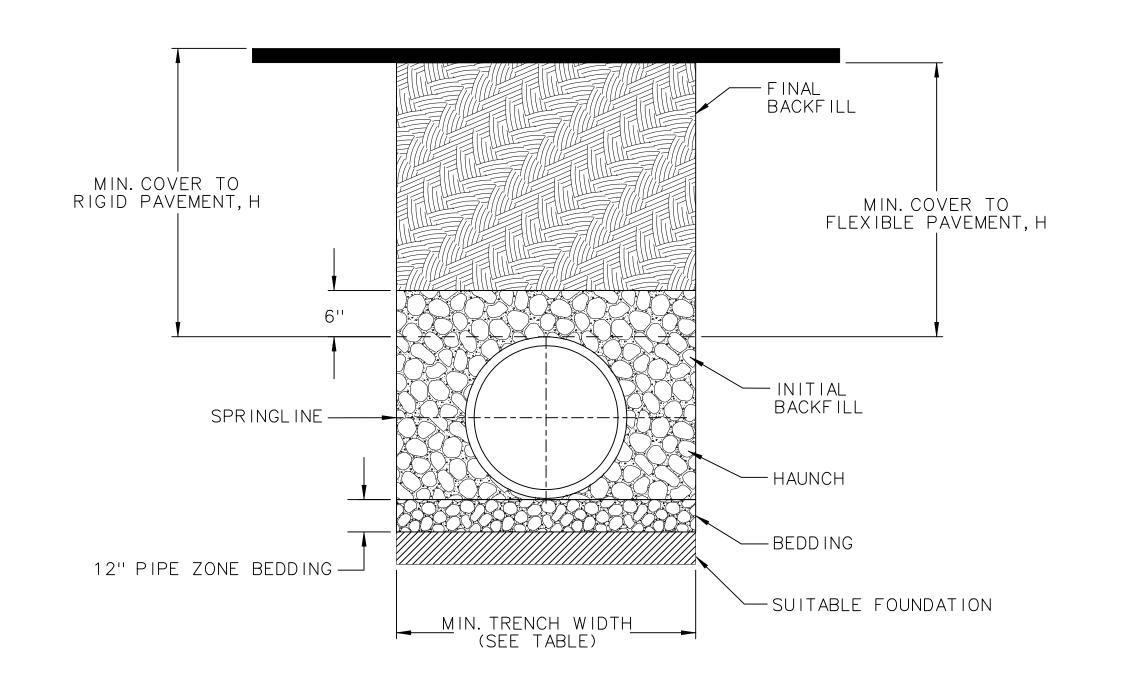


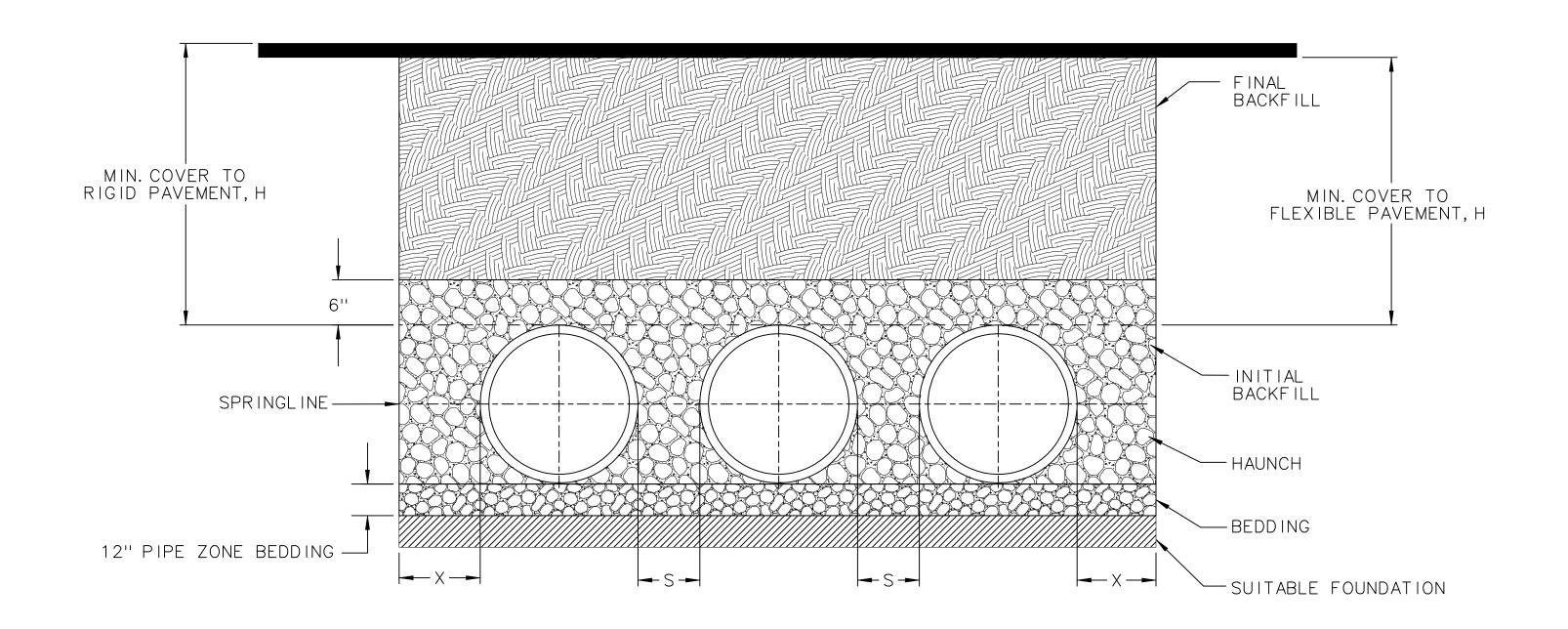
### TYPICAL STOCKYARD FENCE GATE DETAIL

NTS

	NO. *C   W.O.   ØØ232575	COMPUTER REVISION ONLY BY DATE APPROVED
	* C=CONTRACT CONSTRUCTION	,FA=FORCE ACCOUNT CONSTRUCTION ,R=RECORD
	Design	UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION
	DrawnHDR/LBM	HEADQUARTERS, PORTLAND, OREGON
	Chkd HDR/DEC	BIG EDDY-KNIGHT NO.1
	Sub	500kv TRANSMISSION LINE
	Rec	PROJECT
	 Rec	STOCKYARD FENCE GATE
	Appr	TYPICAL DETAIL
DRAWING NUMBER SHEET TITLE		SERIAL SOURCE SIZE SHEET REVISION
REFERENCE DRAWINGS	Date JULY 2011	290778   LFC A1   53   0







#### RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH					
18''	39''					
24''	48''					
30"	56"					
36"	64''					
42''	72"					
48''	80''					
54''	88"					
60''	96''					

#### RECOMMENDED MINIMUM SPACING

PIPE DIAM.	MIN. "X"	MIN. "S"+
18''	9''	12"
24''	10''	12''
30''	18''	15''
36''	18''	18''
42"	18''	21''
48''	18''	24''
54''	18''	27''
60''	18''	30''
	-	-

+ MINIMUM SPACING ("S") MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.

COMPUTER REVISION ONLY

UNITED STATES DEPARTMENT OF ENERGY

\* C=CONTRACT CONSTRUCTION ,FA=FORCE ACCOUNT CONSTRUCTION ,R=RECORD

BY DATE APPROVE

+ ADDITIONAL PARALLEL PIPES SHALL BE SPACED "S" DISTANCE APART WITH "X" DISTANCE FROM TRENCH SIDE WALL.

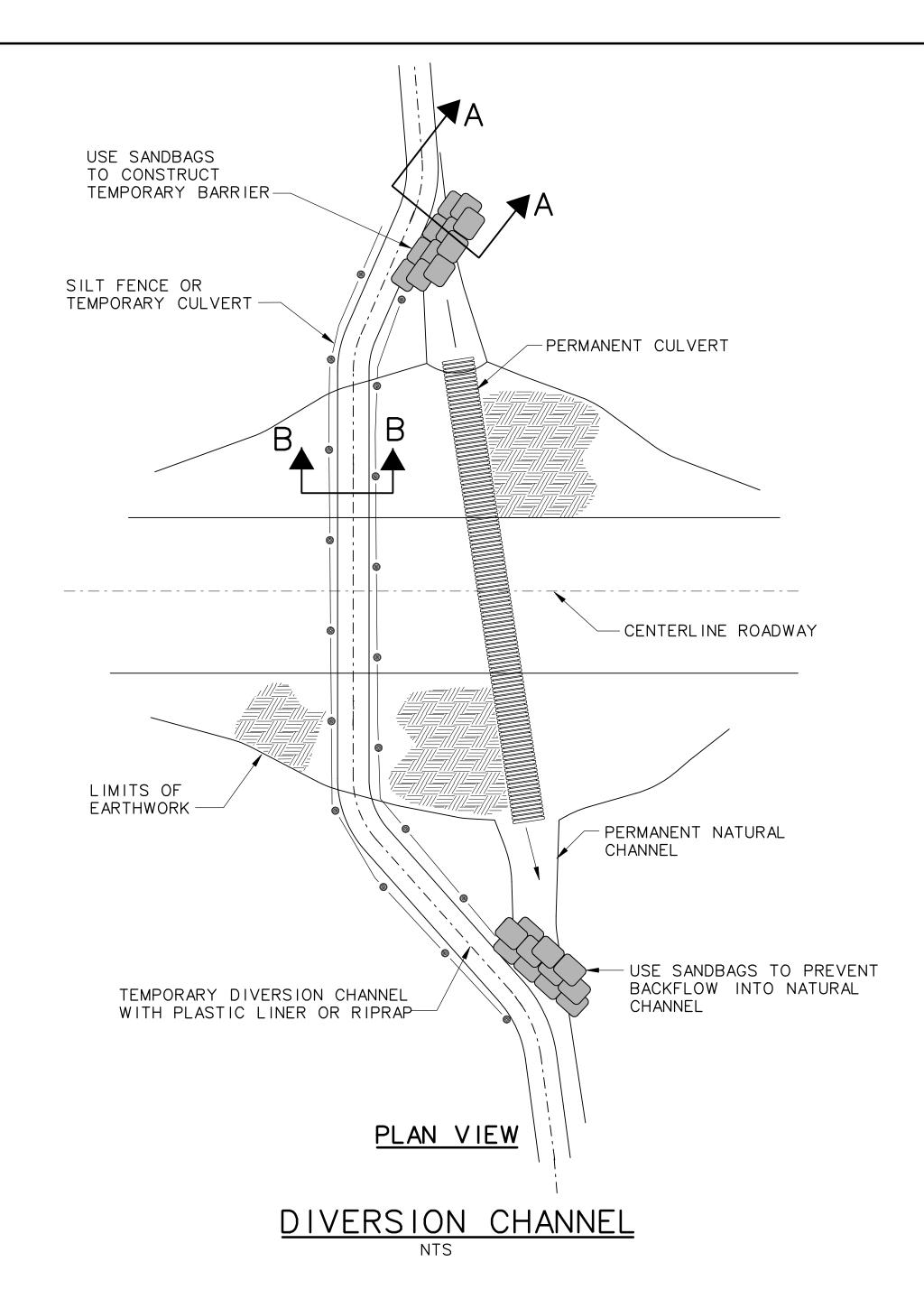
#### NOTES:

- 1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
- 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN
- 3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE COTR AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE COTR, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- 4. BEDDING: SUITABLE MATERIAL SHALL MEET ODOT OR WSDOT SPECIFICATION, AS APPLICABLE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER.
- 5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL MEET ODOT OR WSDOT SPECIFICATION, AS APPLICABLE, IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDÉ DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- 6. MINIMUM COVER: FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54" -60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

TRENCH DETAILS

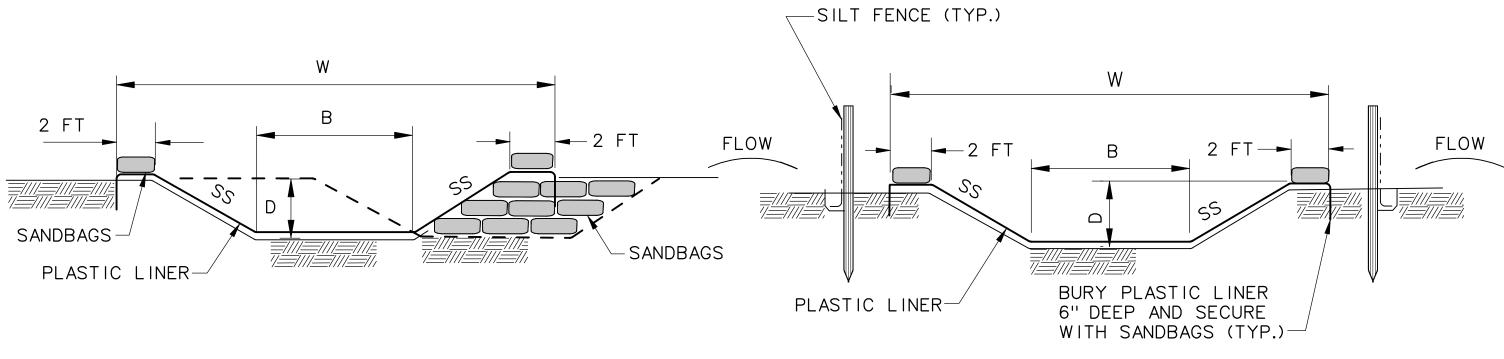
	Design HDR/CCW	BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON
	Urawn	BIG EDDY-KNIGHT NO.1
	Sub	500kv TRANSMISSION LINE
	Rec	PROJECT
		TRENCH DETAILS FOR
	Appr	CULVERT INSTALLATIONS
DRAWING NUMBER SHEET   TITLE REFERENCE DRAWINGS	Date JULY 2011	SERIAL SOURCE SIZE SHEET REVISION LFC A1 55

HDR/JRS



#### NOTES:

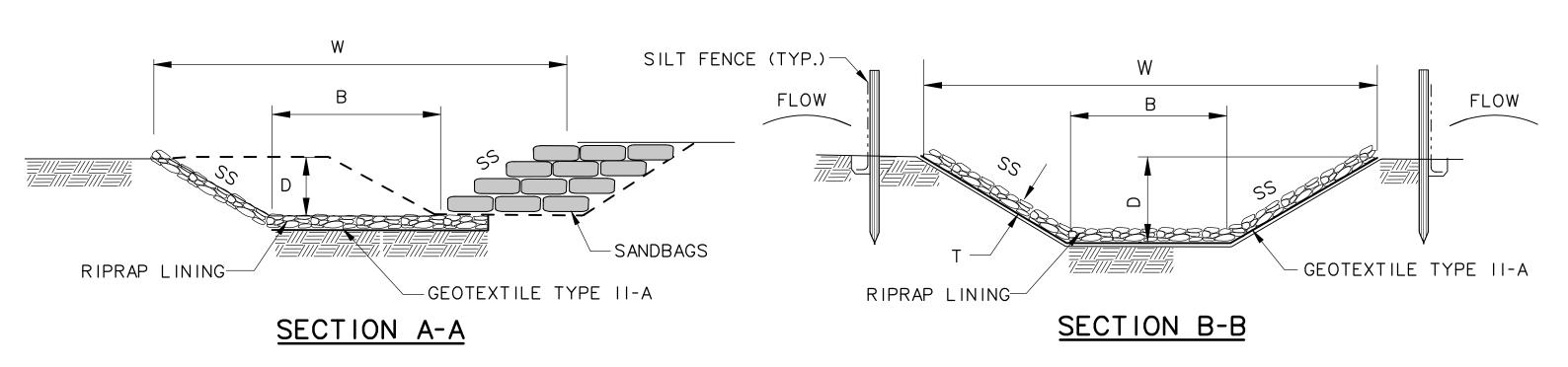
- 1. ADJUST DIMENSIONS (W, B, D, T AND SS ) DURING CONSTRUCTION TO MEET THE REQUIREMENTS FOR STEAM SIZE AND FLOW.
- 2. USE PLASTIC LINER OR RIPRAP ALONG THE ENTIRE LENGTH AND WIDTH OF THE TEMPORARY DIVERSION CHANNEL.
- 3. CONSTRUCT CHANNEL AT THE MINIMUM GRADE OF 0.5%.
- 4.DO NOT CONSTRUCT WITH LONGITUDINAL JOINTS IF USING A PLASTIC LINER. BURY THE UPSTREAM EDGE OF THE LINER A MINIMUM OF 6" DEEP AND SECURE WITH RIPRAP OR SANDBAGS.
- 5. COMPACT TEMPORARY CULVERT BACKFILL USING ONE OF THE METHODS LISTED IN THE SPECIFICATIONS.



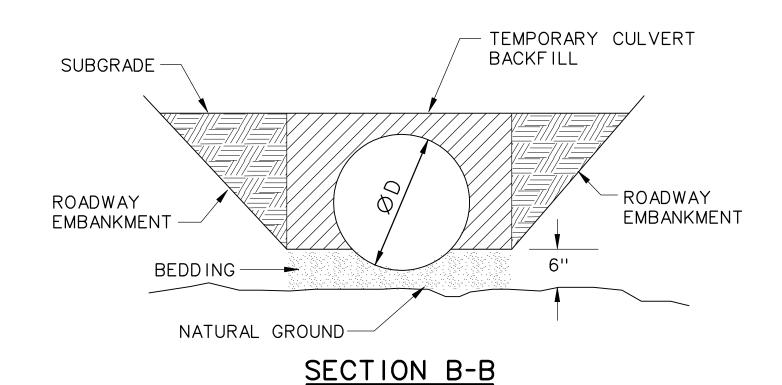
### SECTION A-A

### SECTION B-B

## PLASTIC LINED DIVERSION CHANNEL

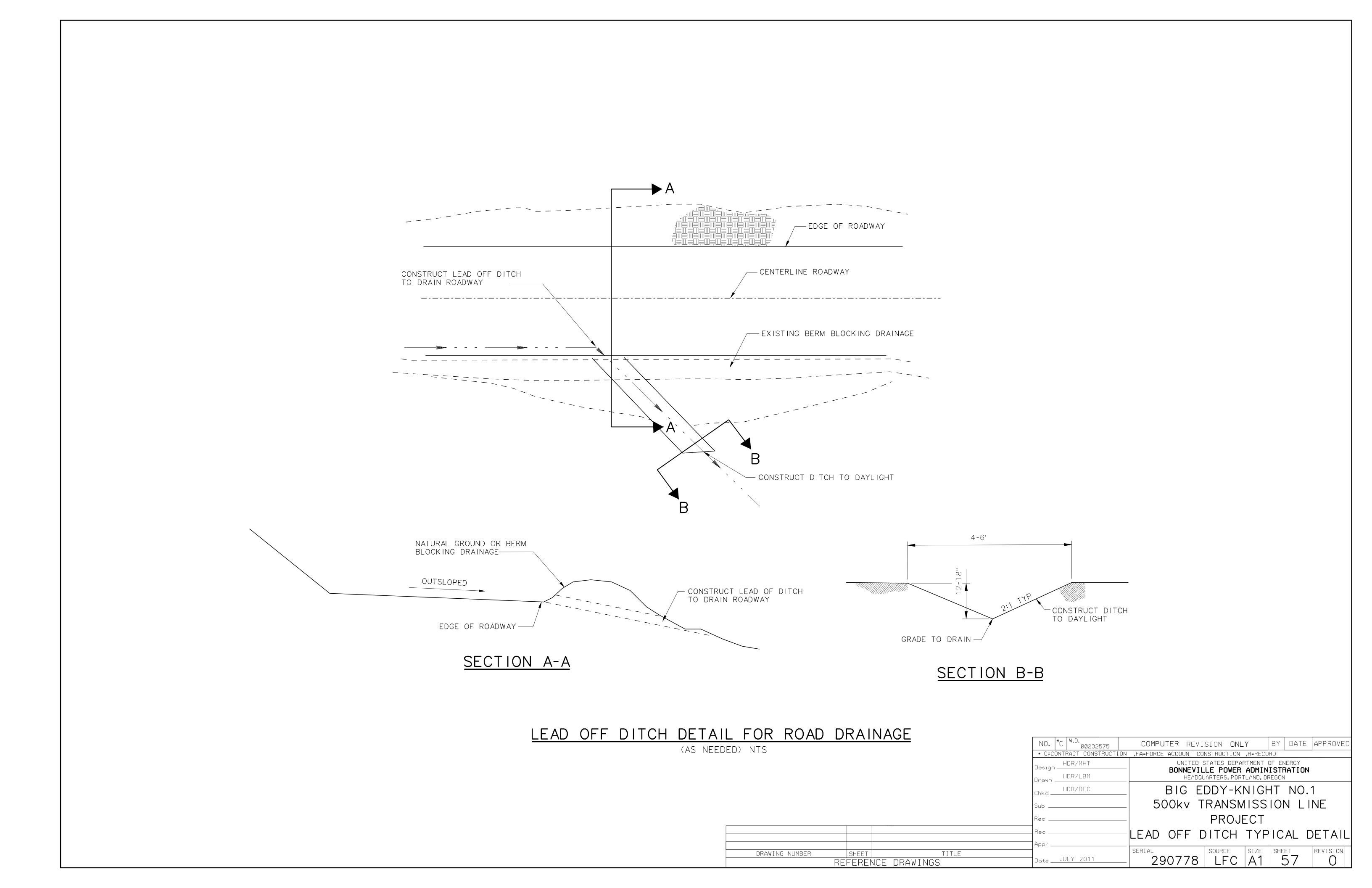


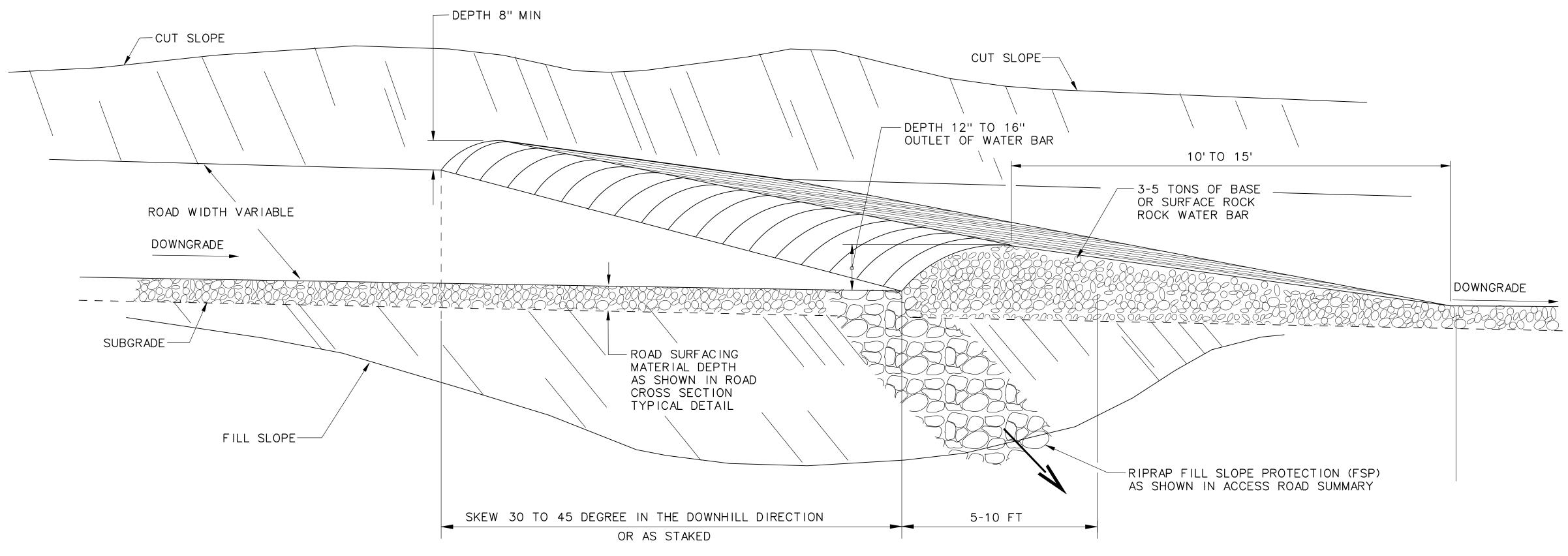
# RIPRAP LINED DIVERSION CHANNEL



## TEMPORARY CULVERT

	NO.	*C W.O. ØØ232575	COMPUTER REVISION ONLY BY DATE APPROVED
	* C=C0I	NTRACT CONSTRUCTI	
	Design _	HDR/MHT	UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION
	Drawn _	HDR/LBM	HEADQUARTERS, PORTLAND, OREGON
	Chkd	HDR/DEC	BIG EDDY-KNIGHT NO.1
			500kv TRANSMISSION LINE
	Sub		PROJECT
	Rec		CULVERT DIVERSION
	Rec		
	Appr		TYPICAL DETAIL
DRAWING NUMBER SHEET TITLE		II II V 0011	SERIAL SOURCE SIZE SHEET REVISION
REFERENCE DRAWINGS	Date	JULY 2011	_ 290778 LFC A1 56 0





#### NOTES:

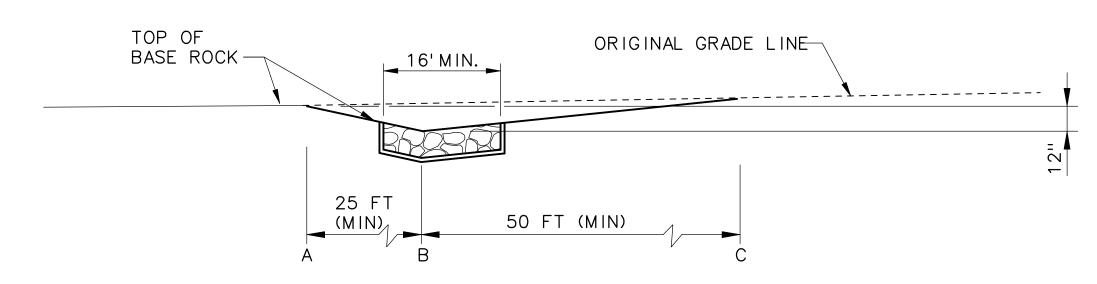
- 1. BEGIN WATER BARS AT THE INTERSECTION OF THE ROADBED AND CUT SLOPES, AND RUN ACROSS THE ENTIRE WIDTH OF THE ROADBED.
- 2. ENSURE WATER BARS HAVE A FREE FLOWING OUTLET FOR DRAINAGE.
- 3. WHEN STAKES OR FLAGGING ARE USED TO LOCATE WATER BARS, THEY DESIGNATE THE OUTLET LOCATION OF THE WATER BAR.
- 4. ENSURE THAT WATER BARS ALLOW FOR PASSAGE OF A STANDARD 4 WHEEL DRIVE PICKUP TRUCK.
- 5. SEE SPECIFICATIONS FOR SPACING.

SLOPE	INTERVAL
3%	670'
5%	400'
10%	200'
15%	135'
20%	100'

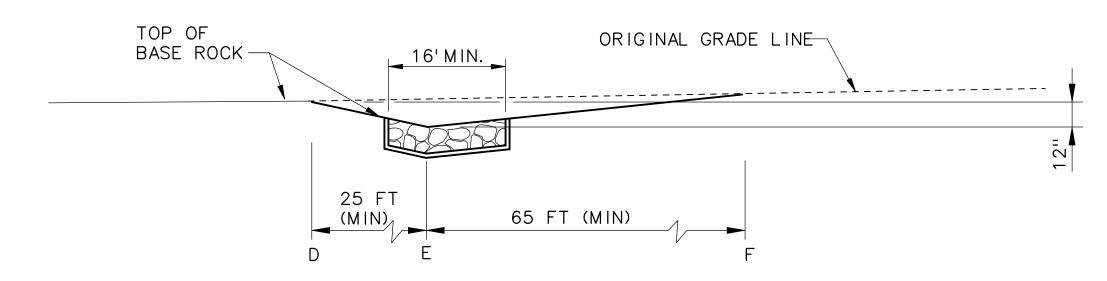
### TYPICAL ROCK WATER BAR DETAIL

NTS

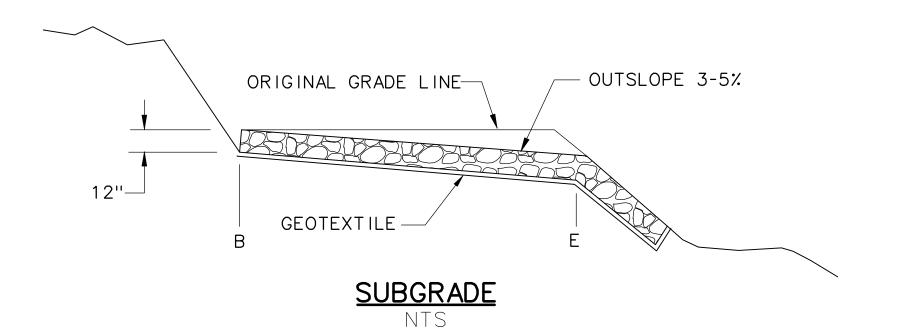
CECONTRACT CONSTRUCTION FA=FORCE ACCOUNT CONSTRUCTION R=RECORD  UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON  Chkd HDR/DEC Sub Sub Sub PROJECT ROCK WATER BAR TYPICAL DETAIL  DRAWING NUMBER SHEET TITLE  PROJECT REVISION  SERIAL SOURCE SIZE SHEET REVISION			
Design HDR/HHT BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON  Chkd HDR/DEC BIG EDDY-KNIGHT NO.1  Sub PROJECT  Rec PROCK WATER BAR  TYPICAL DETAIL  DRAWING NUMBER SHEET TITLE  DESIGN HDR/MHT BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON  BIG EDDY-KNIGHT NO.1  500kv TRANSMISSION LINE PROJECT ROCK WATER BAR TYPICAL DETAIL		NO. *C W.O. ØØ232575	COMPUTER REVISION ONLY BY DATE APPROVED
Design		* C=CONTRACT CONSTRUCTION	,FA=FORCE ACCOUNT CONSTRUCTION ,R=RECORD
Drawn HDR/LBM HEADQUARTERS, PORTLAND, OREGON  HDR/DEC BIG EDDY-KNIGHT NO.1  500kv TRANSMISSION LINE PROJECT Rec PROJECT ROCK WATER BAR TYPICAL DETAIL  DRAWING NUMBER SHEET TITLE  DRAWING NUMBER SHEET TITLE		Design	
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REFERENCE DRAWINGS	REFERENCE DRAWINGS	Date JULY 2011	290778 LFC A1 58 0



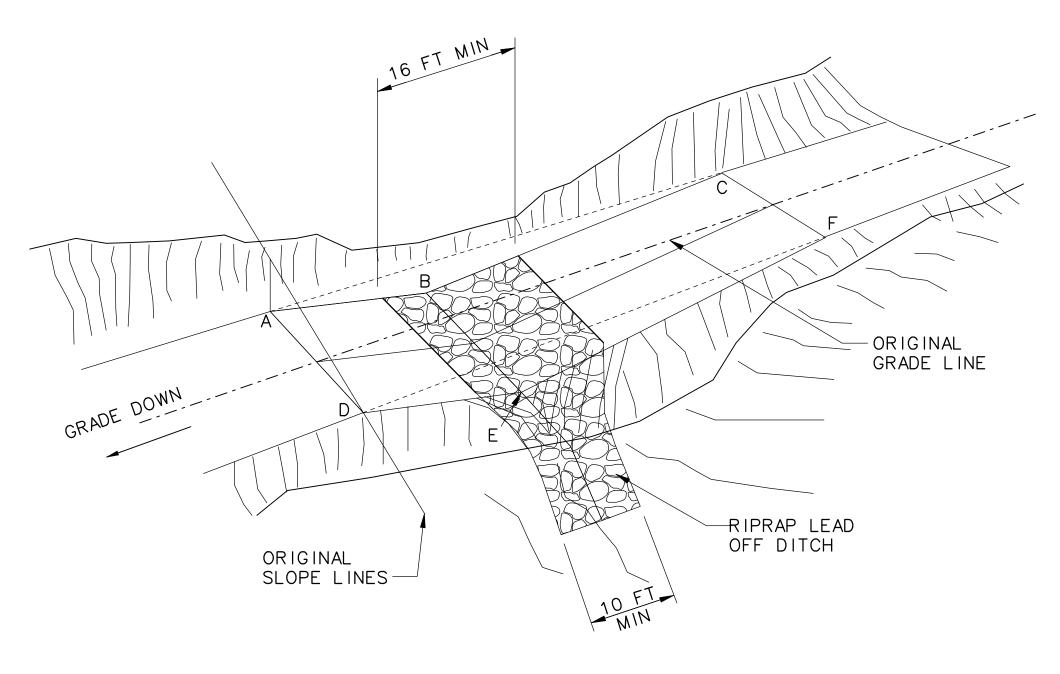
### ROAD PROFILE ALONG A-B-C OF DRAIN DIP DITCH SIDE)



## ROAD PROFILE ALONG D-E-F OF DRAIN DIP (OUTLET SIDE)



ROCK SPILL APRON 16 FT WIDE WITH RIPRAP MATERIAL TO TOE OF FILL AS SHOWN IN THE ACCESS ROAD SUMMARY



### PERSPECTIVE VIEW

NOTE:

PLAN OF DIP SHOWN IS FOR AN OUTSLOPED ROAD.

DIPS MAY BE EITHER INSLOPED OR OUTSLOPED.

WHEN INSLOPED, DISCHARGE DIPS INTO A CULVERT, DROP INLET, OVERSIDE DRAIN, OR DRAINAGE DITCH.

WHEN OUTSLOPED, DISCHARGE DIPS INTO AN OVERSIDE DRAIN OR ONTO NATURAL GROUND.

THE MINIMUM CROSS GRADE (B-E) IN THE CENTERLINE OF THE DIP SHALL BE 4% GREATER THAN THE ORIGINAL ROAD GRADE.

SKEW LINE B-E AS NEEDED OR TO FIT LOW POINT IN DRAW, IF LOCATED IN NATURAL DRAIN.

DRAIN DIPS ARE PROPOSED AT THE FOLLOWING:

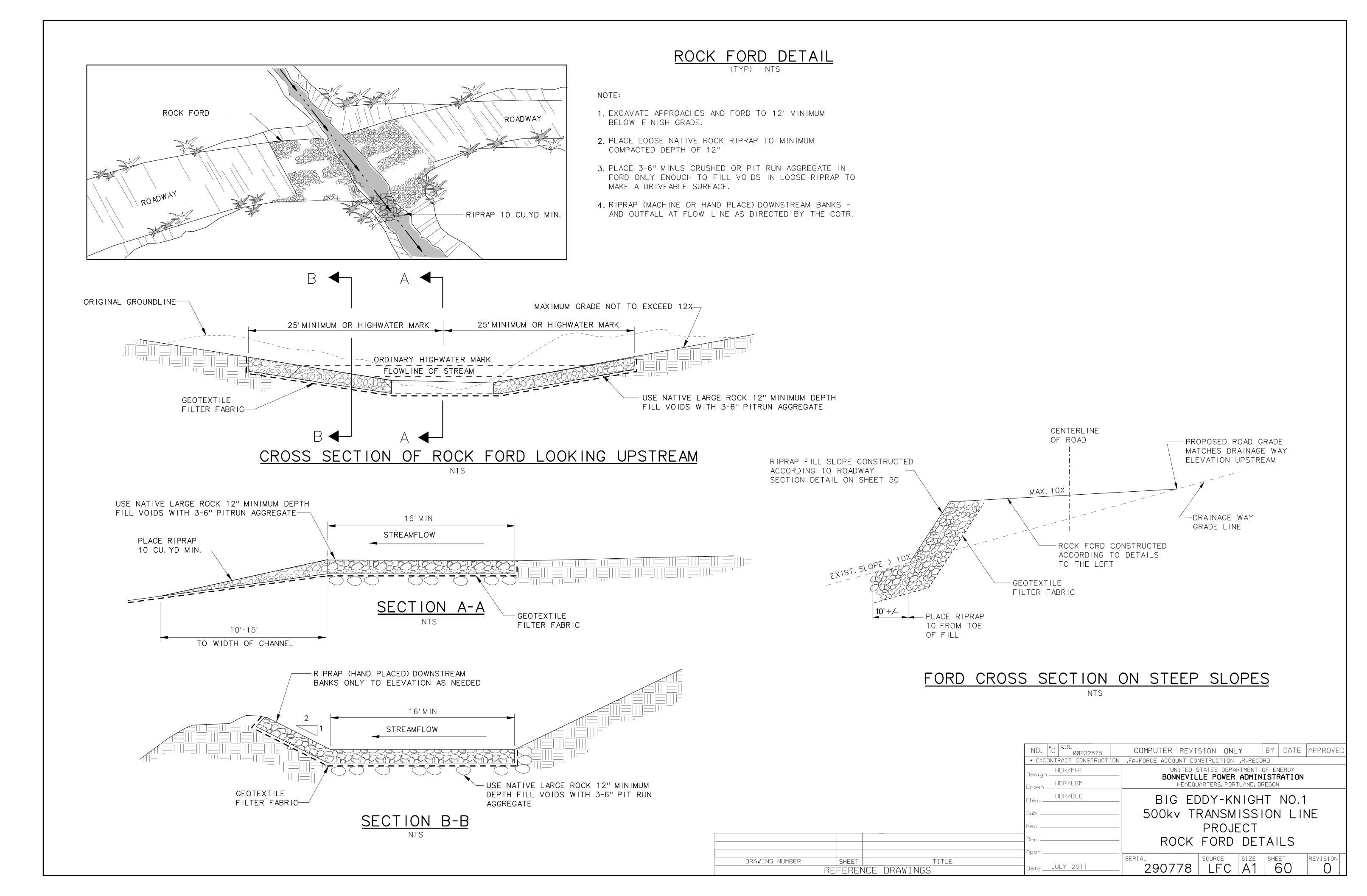
- 1. INSTALLED IN ROADWAY SAG LOCATIONS.
- 2. TO CONVEY RUNOFF TO DOWNSTREAM CHANNEL WHERE UPSTREAM CHANNEL IS NOT PRESENT AT EDGE OF ROADWAY. FOR THESE LOCATIONS, DRAIN DIP SHALL ALIGN WITH DOWNSTREAM CHANNEL.
- 3. TO CONVEY RUNOFF COLLECTED IN A CONSTRUCTED DITCH OR ALONG TOE OF SLOPE ACROSS ROADWAY WHERE THE DITCH/TOE OF SLOPE DAYLIGHTS.

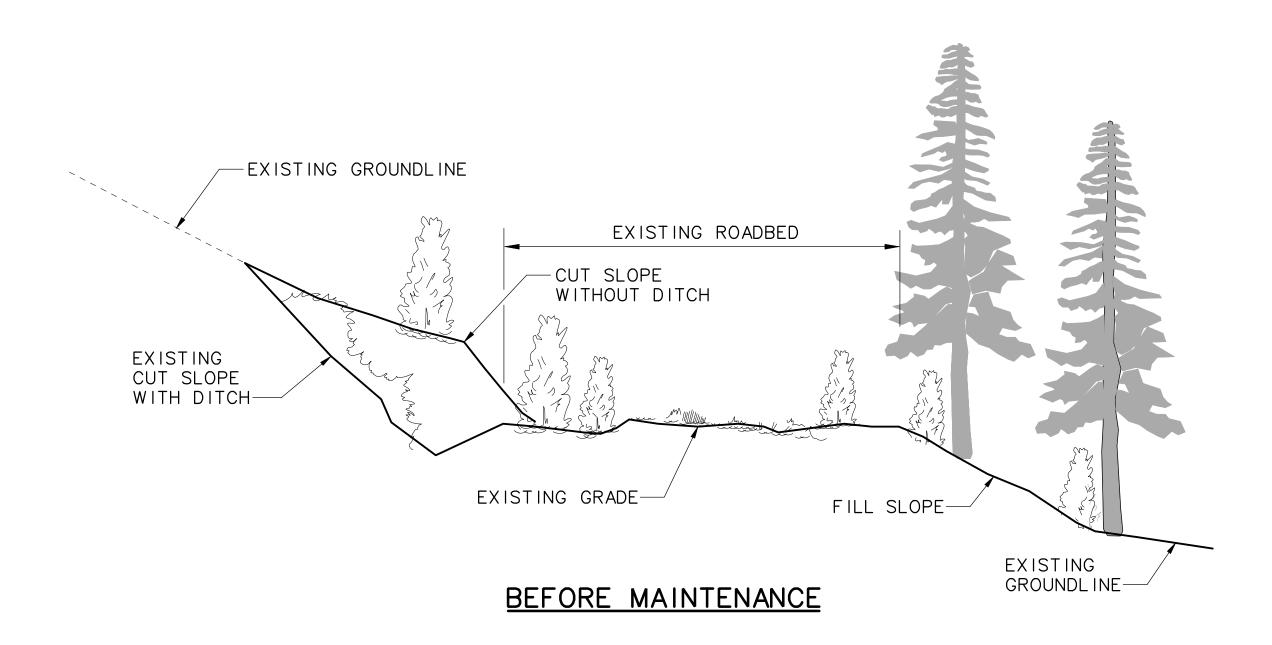
REFERENCE DRAWINGS

### TYPICAL ROLLING DRAIN DIP

NTS

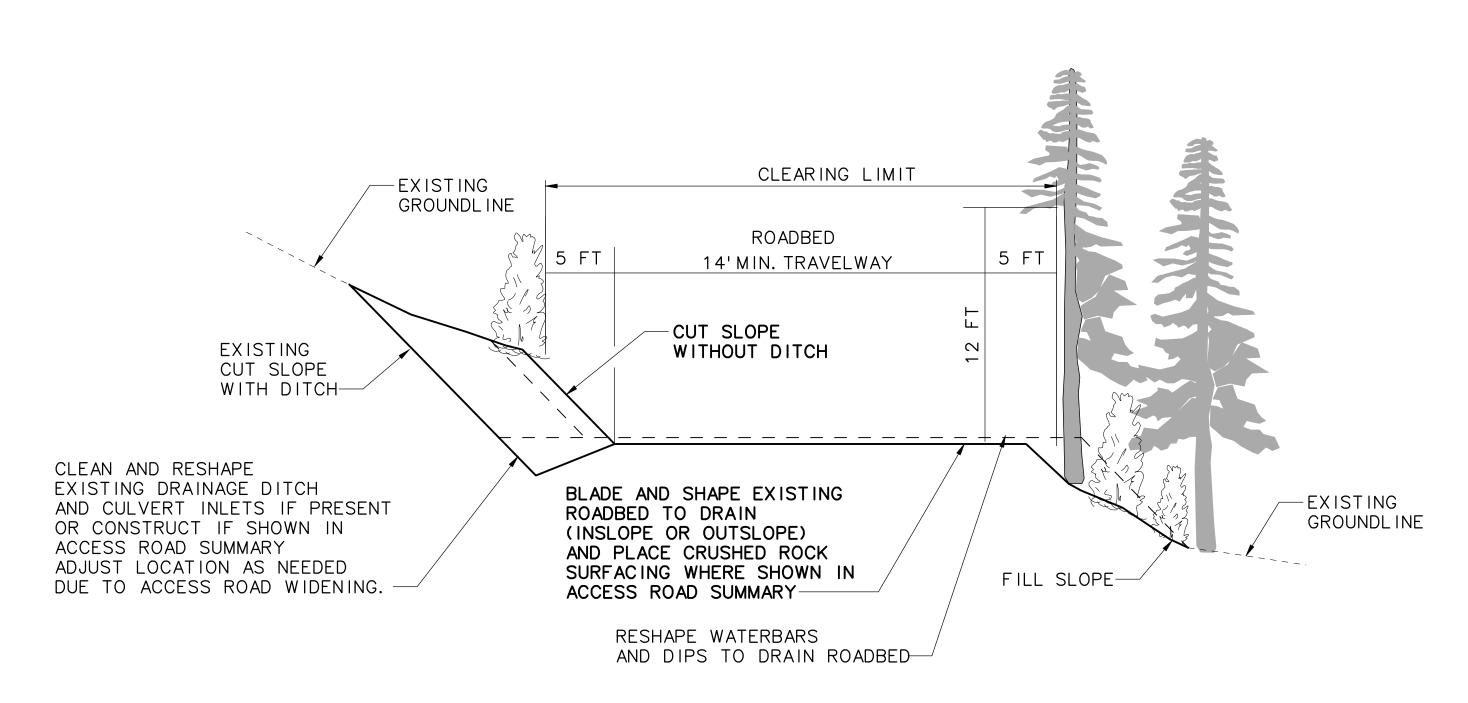
COMPUTER REVISION ONLY BY DATE APPROVED \* C=CONTRACT CONSTRUCTION ,FA=FORCE ACCOUNT CONSTRUCTION ,R=RECORD UNITED STATES DEPARTMENT OF ENERGY HDR/MHT Design \_ BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON HDR/LBM BIG EDDY-KNIGHT NO.1 HDR/DEC 500kv TRANSMISSION LINE PROJECT ROLLING DRAIN DIP TYPICAL DETAIL SOURCE SIZE SHEET LFC A1 59 SERIAL REVISION DRAWING NUMBER TITLE Date JULY 2011 290778 LFC A1





#### NOTES:

- 1. REMOVE PLANTS AND TREES WITHIN CLEARING LIMITS SHOWN OR MARKED ON THE GROUND.
- 2. BLADE AND SHAPE EXISTING ROADBED TO SPECIFIED DIMENSIONS.
  3. RESHAPE EXISTING WATERBARS, DIPS, OR OTHER
- EXISTING DRAINAGE STRUCTURES TO DRAIN ROADBED.
- 4. CLEAN AND RESHAPE ROADWAY DITCHES AND CULVERT
- INLETS AND OUTLETS.
- 5. INSTALL ADDITIONAL WATERBARS, DIPS OR OTHER DRAINAGE
- STRUCTURES AS SHOWN IN ACCESS ROAD SUMMARY.
- 6. PLACE CRUSHED ROCK SURFACING IN AREAS AS SHOWN IN ACCESS ROAD SUMMARY.
- 7. VARY SHAPES AND DIMENSIONS TO FIT LOCAL CONDITIONS.

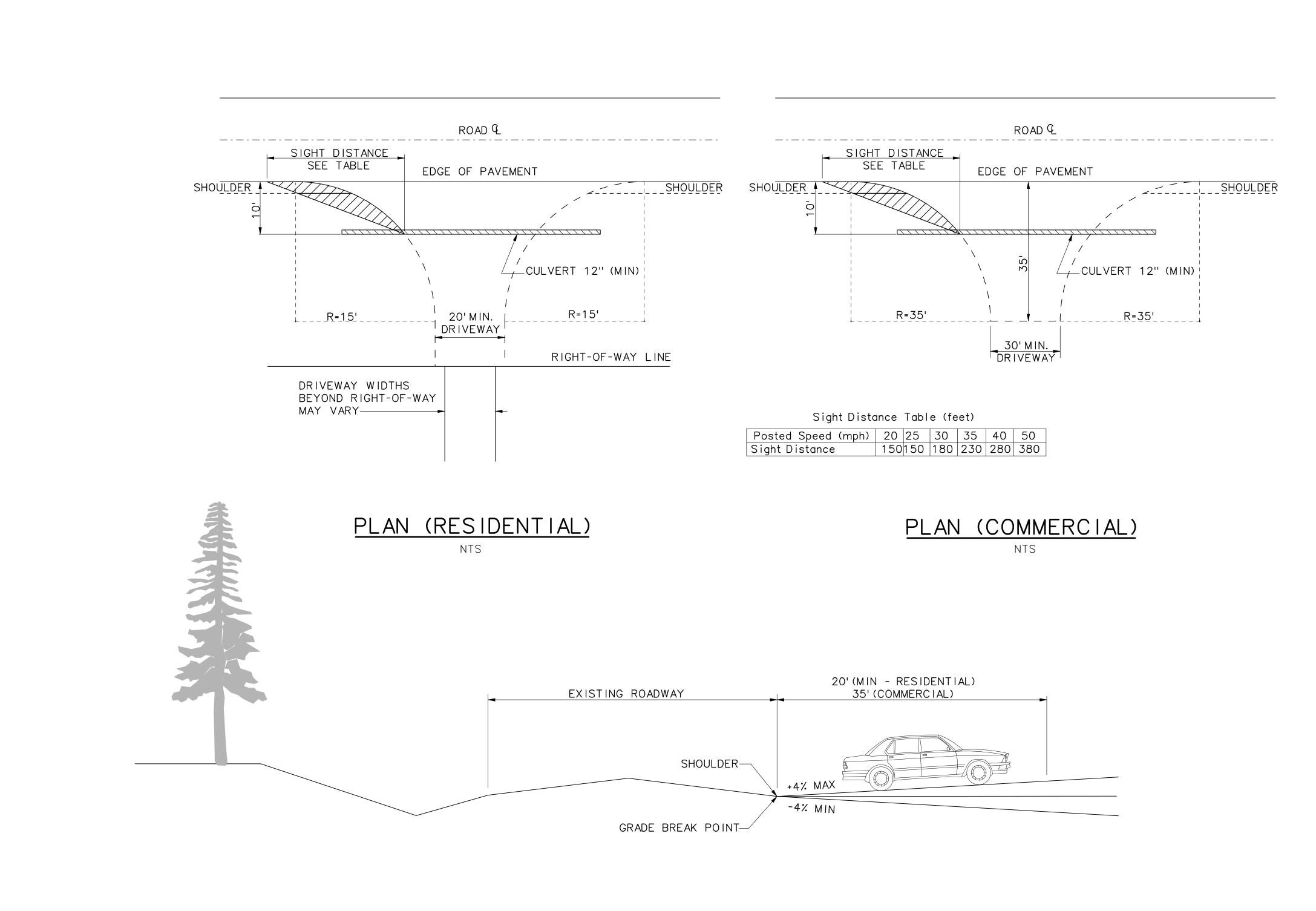


### AFTER MAINTENANCE

### ROAD REPAIR AND MAINTENANCE DETAIL

NTS

	NO. *C W.O. 00232575 COMPUTER REVISION ONLY BY DATE APPROV
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	Design HDR/MHT  Design HDR/LBM  HDR/LBM  UNITED STATES DEPARTMENT OF ENERGY  BONNEVILLE POWER ADMINISTRATION  HEADQUARTERS, PORTLAND, OREGON
	Chkd HDR/DEC BIG EDDY-KNIGHT NO.1
	Sub 500kv TRANSMISSION LINE
	RecPROJECT
	ROAD REPAIR AND MAINTENANC
	TYPICAL DETAIL
DRAWING NUMBER SHEET TITLE  REFERENCE DRAWINGS	Date JULY 2011 SERIAL SOURCE SIZE SHEET REVISION OF SERIAL SOURCE A1 61 O



## TYPICAL SECTION NTS

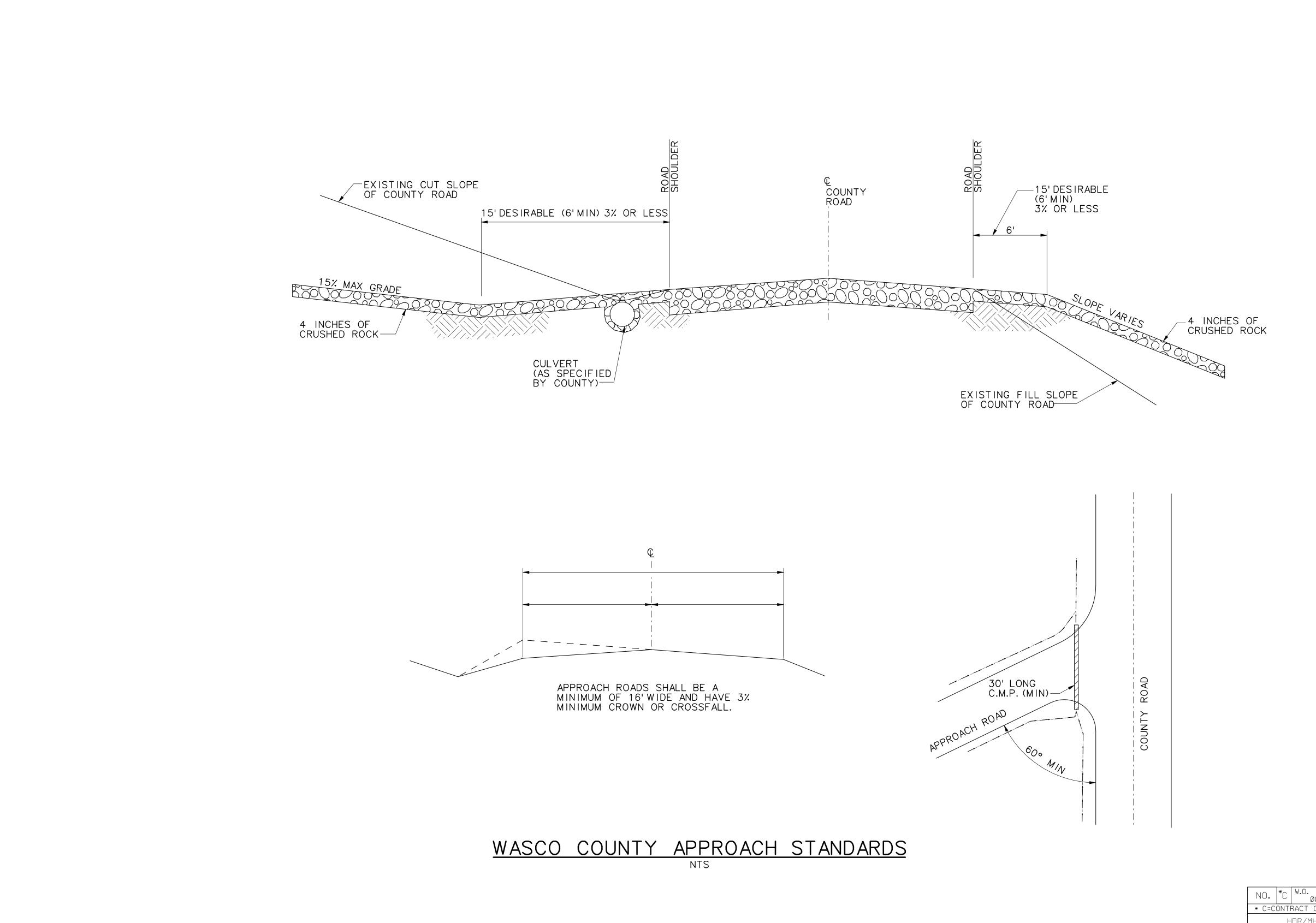
### KLICKITAT COUNTY DRIVEWAY APPROACH

SHEET TREFERENCE DRAWINGS

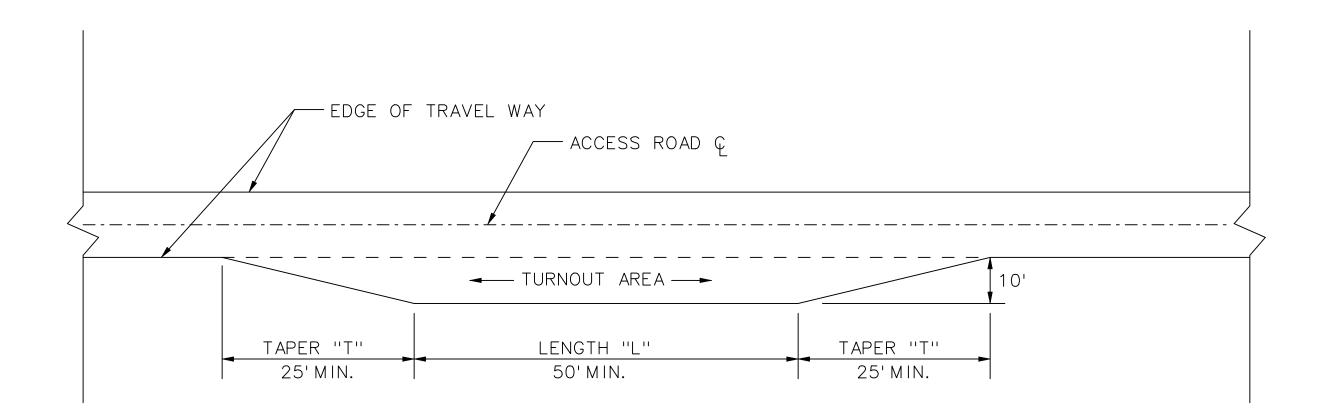
DRAWING NUMBER

TITLE

NO	). l	*C	W.O. ØØ232575		COMPUTER	REVI	SION	ONLY	BY	DATE	APPROVED
* (	C=CC	ONTF	RACT CONSTRUCTI	ION	,FA=FORCE ACCO	JNT CO	NSTRUCT	ION ,R=REC	ORD		
Des	Design HDR/MHT UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION										
			DR/LBM		HEADQUARTERS, PORTLAND, OREGON						
			DR/DEC					-KNIG			•
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	NO. *C   W.U.   ØØ232575   COMPUTER REVISION ONLY   BY   DATE   APPROVED
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	HDR/MHT Design HDR/MHT BONNEVILLE POWER ADMINISTRATION
	Drawn HDR/LBM HEADQUARTERS, PORTLAND, OREGON
	Chkd HDR/DEC BIG EDDY-KNIGHT NO.1
	Sub 500kv TRANSMISSION LINE
	PROJECT
	WASCO CO. DRIVEWAY APPROACH
	Appr
DRAWING NUMBER SHEET TITLE	SERIAL SOURCE SIZE SHEET REVISION
REFERENCE DRAWINGS	Date JULY 2011 290778   LFC A1   63   0



VEHICLE TURNOUT DETAIL

### NOTES:

SHEET T REFERENCE DRAWINGS

DRAWING NUMBER

TITLE

- TURNOUT AREA SURFACING TO MATCH ROAD CROSS SECTION TYPICAL DETAIL.
- 2. PLACE VEHICLE TURNOUTS AT A MINIMUM OF 1/4 MILE INCREMENTS ALONG AN ACCESS ROAD ALIGNMENT, PER BPA STANDARDS

NO. *C W.O. 00232575	COMPUTER REVISION ONLY BY DATE APPROVED	
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DesignHDR/JRS	UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION	
DrawnHDR/CCW	HEADQUARTERS, PORTLAND, OREGON	
Chkd HDR/DEC	BIGEDDY-KNIGHT NO.1	
Sub	500 kv TRANSMISSION LINE	
Rec	PROJECT	
Rec	VEHICLE TURNOUT DETAIL	
Appr		
Date JULY 2011	SERIAL SOURCE SIZE SHEET REVISION OF SOURCE SIZE SHEET OF SOURCE OF SOURCE SIZE SHEET OF SOURCE OF SOURCE SIZE SHEET OF SOURCE	